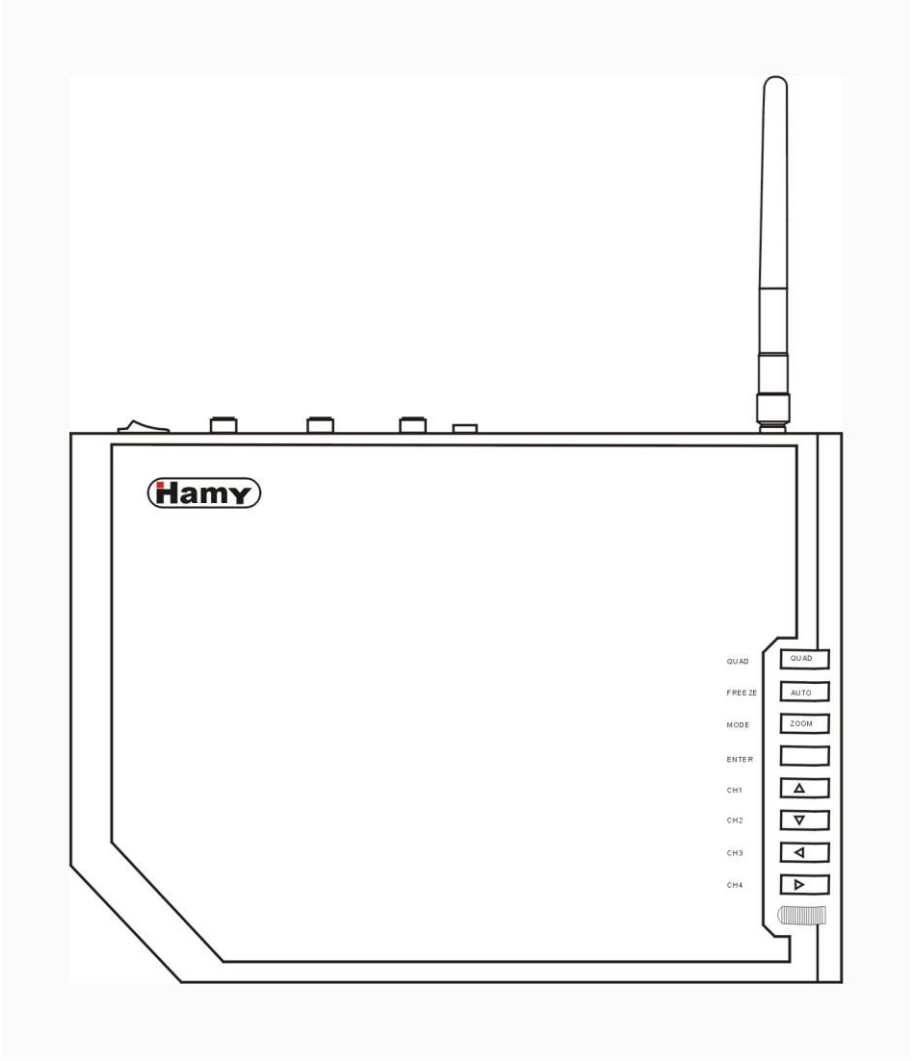
2.4GHz WIRELESS RECEIVER & QUAD SYSTEM



KT-2418

Operation Instruction

I. Summary

Respectable users: we appreciate that you have chose the color 4-channel multiplexer of our company, this manual will introduce the functional features, installation and operation method of the product to you, so that you will get acquainted with our product as soon as possible.

Notes: the information in the manual is the information when the manual is published, the manufacturer will reserve the rights to modify and improve the product, and any modifications to the parameters will be made without any notification.

- It is prohibited to use the product under the environment of high temperature and high moisture, especially in shower room under high temperature;
- Don't put the product at the places under direct sunshine (such as vehicles which are parked on open areas and sand beach);
- Don't wash and wipe the product with diluent or other chemical detergent;
- Only the specified AC adapter and power source can be used; don't use other power sources, to avoid causing serious damage to the product;
- Please cut off the power source when the product is not used;
- Don't disassemble the product without permission, please contact the distributor or our company in case of any doubts.

2. Key Functional Features

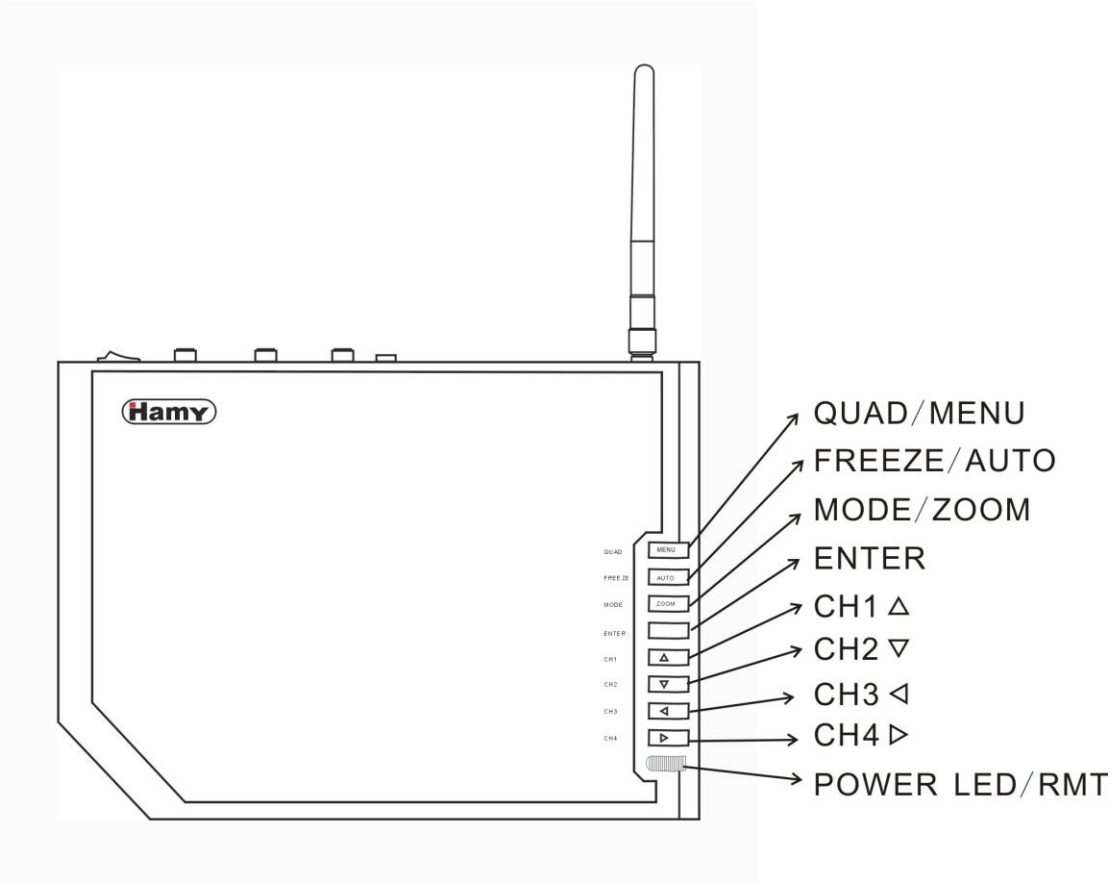
- Time and date display and location setup
- Camera name setup
- Auto sequence
- Camera picture quality setup
- Monitoring 4x electronic zoom function
- Connect PC, a single synchronous recording or four camera signals

II. Instruction for Wire Connection

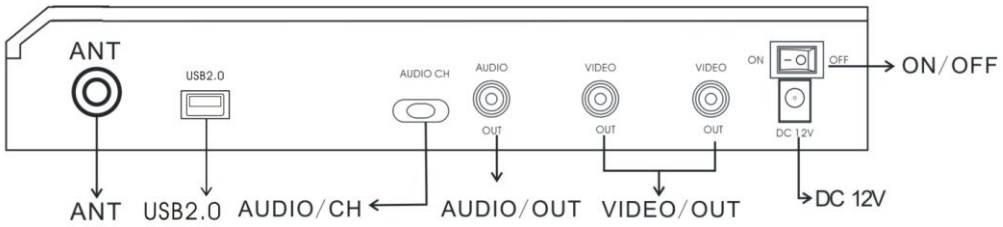
- Insert the yellow video cable and red audio cable into the VIDEO and AUDIO IN of TV set or monitor.
- And the picture you receive will display on the TV set or monitor. Select AUDIO CH, and you will receive the voice from your wireless camera synchronistically.
- connects to the USB line can be displayed on a computer on-site audio-video receiver, and synchronization of audio and video recording scene

III. Instruction for Keys and Operation

Schematic Drawing for Panel:



Schematic Drawing on the Back:



1. QUAD/MENU Key:

(1) Press QUAD Key under the current non-menu setup mode and the status of auto sequence to enter into current quad picture;

(2) Press and hold MENU Key under the current status to return to the menu picture;

(3) Press this key to return to the higher level menu or exit the main menu in menu operation.

2. AUTO/FREEZE Key:

(1) Press this key under the current status of QUAD to enter into auto sequence function, and it will cycle automatically in the sequence of QUAD-CH1-CH2-CH3-CH4 according to the set sequence time.

(2) Press this key under current PIP1 status, and the small picture will cycle automatically in the three channels except the big picture.

(3) Press and hold FREEZE Key under the mode of quad and big picture display to enter into small picture freeze status, and “F1234” will be shown on the top left corner of the display, and “1234” will be shown in light color; press CH1, CH2, CH3 and CH4 Keys, the picture of the corresponding camera 1, 2, 3 and 4 will be frozen, and the corresponding figures on the top left corner will become flashing, press this key again or when the freeze time ends, the freeze of the picture will be cancelled.

3. MODE/ZOOM Key:

(1) Press MODE Key under the current status, the picture will be switched in the sequence of PIP1-PIP2-PIP3-POP-QUAD;

(2) Press and hold ZOOM Key to enter into electronic zoom function, and you

may adjust the scope of zoom through “▲”, “▼”, “ +” and “—” keys; press AUTO Key after selecting the scope, and the selected scope will be zoomed to quadruple the original;

(3) Press and hold CH1, CH2, CH3 and CH4 after entering into ZOOM function to zoom the corresponding quad picture to quadruple the original;

(4) Press ENTER Key After zoom to exit the zoom status, and return to the zoom zone selection status;

(5) Press ZOOM or QUAD to return to the original status.

4. “ENTER” Key: under the menu status, this key functions as carriage return; press this key after selecting menu to enter into the selected submenu.

5. “1”, “2”, “3”, “4”/“▲”, “▼”, “+” , “—” Keys

(1) These four keys may be used to display or freeze the picture of the corresponding camera in the current quad picture display;

(2) Under the menu selection mode, these four keys may be used to move the position of the cursor upwards and downwards and change the value of the corresponding cursor.

IV. Command Setup under Menu

You can enter into the main menu if pressing MENU in any current display mode;

Operation instruction: press (▲) Key or (▼) Key when setting menu and selecting setup window, and the cursor will move downwards and upwards on the selected options, press (+) or (—) Key to conduct parameter modification setup; press MENU to save the set parameters and return to the lower level menu; press and hold MENU to exit the menu.

1. SYSTEM SETUP (Setup of time, date, system and reset)

Press “ENTER” to enter into setup option after selecting SYSTEM SETUP with “▲” and “▼” under the main menu mode.

(1) DATE: system date, YY-MM-DD (year, month and date) arrangement; press "▲" and "▼" keys for a selection at first and then press "—" and "+" keys to modify the sequence of the arrangement (MM-DD-YY); press "▲" and "▼" keys to select the date and then press "—" and "+" keys to modify/set the date;

(2) TIME: system time, HH:MM:SS (hour, minute and second) setup; press "▲" and "▼" keys for a selection at first and then press "—" and "+" keys to modify the sequence of the arrangement (MM-SS-HH); press "▲" and "▼" keys to select the clock and then press "—" and "+" keys to modify/set the time;

(3) SYSTEM FORMAT: color system setup, use control key to select the two systems of "PAL" or "NTSC";

(4) SYSTEM ID NUMBER: system ID number setup (unavailable in this product);

(5) KEY LOCK: key lock, when "ON" is selected, the keys other than MENU/QUAD Key are unavailable under current mode; when "OFF" is selected, the key function will be recovered and available under current mode;

(6) FACTORY RESET: system reset, when “YES” is selected, press “ENTER” to recover the system to factory setup status; “NO” means unrecoverable.

2. DISPLAY SETUP: display setup

1）DISPLAY ON SCREEN: display on screen

(1) TITLE: camera title switch, “√” is on;

(2) DATE: date display switch, “√” is on;

(3) TIME: time display switch, “√” is on;

2) SCREEN POSITION: screen row/field display

(1) X: row center display;

(2) Y: field center display.

3) BORDER COLOR: border parting line color

(1) BLACK: black;

(2) GRAY1: grey;

(3) GRAY2: off white;

(4) WHITE: white;

(5)OFF: off, when “OFF” is selected, the scene will not be divided by border line.

3. AUTO SEQUENCE: auto switch setup

1) QUAD: means the picture sequence time setup mode of QUAD and CH1-CH4;
2) CAMERA1: set the time for image to stay in CH1;
3) CAMERA2: set the time for image to stay in CH2;
4) CAMERA3: set the time for image to stay in CH3;
5) CAMERA4: set the time for image to stay in CH4.

4. CAMERA SETUP: camera setup

1) CAMERA: the channel needed to be set;
2) TITLE: title setup mode, when this option is selected, figures and letters on the top of screen can be edited;
3) BRIGHTNESS: brightness adjust
4) CONTRAST: contrast control
5) SATURATION: hue control;
6) HUE: saturation control;
7) SHARPNESS: sharpness control
8) MIRRORING: image mirroring switch.

5. MOTION SETUP: motion alarm setup

1) CAMERA: set channel
2) DETECTION TIME: ALWAYS ON: alarm is on, ALWAYS OFF: alarm is off; ON/OFF TIME: set alarm time (now ON: 11:00 OFF: 12:00 available)；
3) SENSITIVITY: detection sensitivity setup;
4) VELOCITY: alarm velocity setup;
5) MASKING AREA: detected area coordinate (X ． Y: 00． 00);

6. EVENT SETUP: alarm setup (it is proposed not to open it in this product)

1) ALARM: external alarm switch, it is on when "∨" appears if pressing ENTER Key after selection;
2) LOSS: video loss switch, it is on when "∨" appears if pressing ENTER Key after selection;
3) MOTION: motion detection switch, it is on when "∨" appears if pressing ENTER Key after selection;
4) BUZZER HOLD TIME: the hold time of buzzer (no buzzer in this product);
5) REPORT HOLD TIME: the hold time of event record;
6) ALARM POLARITY: the high and low potential setup of buzzer alarm, "LOW" is low, and "HIGH" is high.

7. EVENT REPORT: alarm records (totaling 6 pages)

1) NO: serial number of alarm;
2) YY-MM-DD: date of alarm;
3) HH:MM:SS: time of alarm;
4) CH: channel of alarm
5) EVENT: event of alarm;
6) LIST CLEAR: to clear records, set “NO” as “YES” and then press ENTER Key to confirm completion of clear.

V. Technical Parameters:

System	PAL NTSC
Receiving Frequency	CH1:2.414GHz CH2:2.432GHz, CH3:2.450GHz CH4:2.468GHz
Source Voltage	12V 1.2A
Current Consumption	750mA
Receiving Sensitivity	-88dBm
Antenna Input Impedance	75 ohm
Video Output Level	1Vp-p
Audio Output Level	1Vp-p
Image Resolution	720×576(PAL)720×480(NTSC)
Image Refresh Rate	60Hz/second(NTSC)50Hz/second(PAL)
Video Output Type	Single picture, two picture, PIP, POP or four picture can be displayed and switched automatically
Ambient Temperature	● -30℃-60℃
Interface type	USB 2.0
Coding manner	MPEG
Software attached	Application attached
Support operation systems	win98/ME/2000/XP
Highest image resolution	1440*1152

VI. Requirements of system

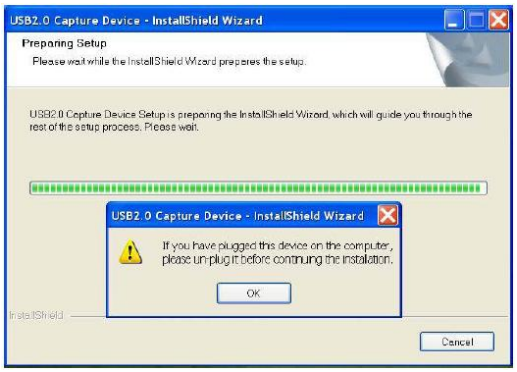
- CPU：1.8GHZ or up
- RAM:256M or up
- Hard disk:10GB
- Operation system:win2000,winXP
- USB 2.0 port

VII. Install driver:

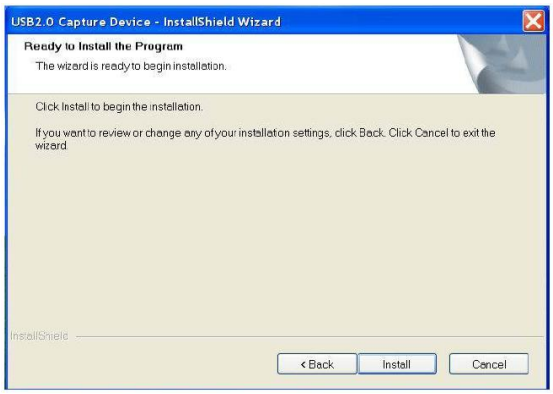
Connect this unit to a computer and install USB2.0 driver

1.Find the file STK1160 Driver in the disk, open it, click "Setup start driving installation .

2.If this product is connected to your computer, disconnect it. Click "OK" to continue.


USB2.0 Capture Device - InstallShield Wizard
Preparing Setup
Please wait while the InstallShield Wizard prepares the setup.
USB2.0 Capture Device Setup is preparing the InstallShield Wizard, which will guide you through the rest of the setup process. Please wait.
USB2.0 Capture Device - InstallShield Wizard
If you have plugged this device on the computer, please un-plug it before continuing the installation.
OK
InstallShield
Cancel

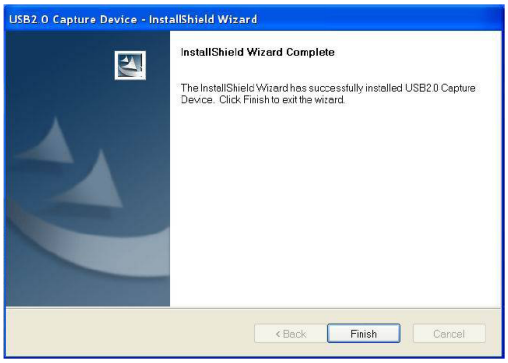
3.Click "Install".


USB2.0 Capture Device - InstallShield Wizard
Ready to Install the Program
The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installaton settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

4.Click “Continue Anyway” to next.

Hardware Installation
The software you are installing for this hardware:
Imaging devices
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

5. Click “Finish” to end the installation to driver


USB2.0 Capture Device - InstallShield Wizard
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed USB2.0 Capture Device. Click Finish to exit the wizard.
< Back
Finish
Cancel

6.After clicking “Finish”, there is a picture diction, click “OK”, and connect the product to your computer to continue installing,

USB2.0 Capture Device - InstallShield Wizard
After finishing the installation,
please plug the device back to the computer and
wait for the device to be enumerated by the computer.
OK

7.After connected, there is a dialogue, select “NO, not this time”, click “NEXT”.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

8. Click “NEXT”.

Found New Hardware Wizard
This wizard helps you install software for:
Syntek STK1160
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

9.Click “Continue Anyway” go to the next step

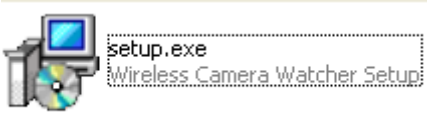
Hardware Installation
The software you are installing for this hardware:
Syntek STK1160
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

10.Click“Finish”. There is a reminder,“hardware has been installed and can be used”.

Then go to monitor.

VIII. Installation of software:

1.Click the file“setup.exe”, click the following icon

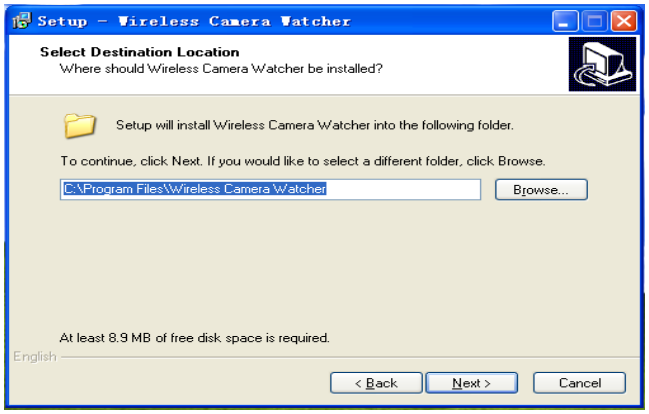


2.Select relative language and click “OK”.

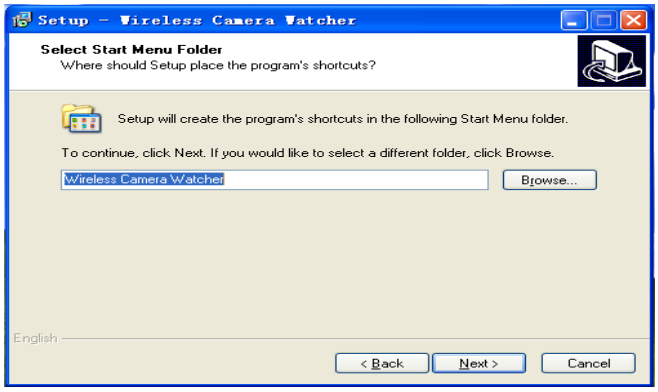
3. Click “NEXT” to continue.

Setup - Wireless Camera Watcher
Welcome to the Wireless Camera Watcher Setup Wizard
This will install Wireless Camera Watcher on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Next >
Cancel

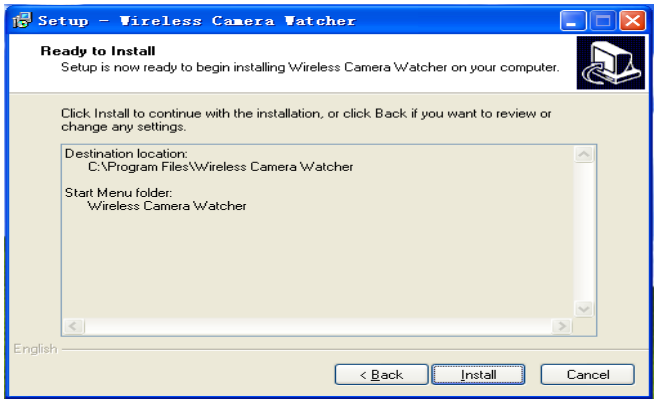
4. Select relative destination location. Click “Next” to continue.


Setup - Wireless Camera Watcher
Select Destination Location
Where should Wireless Camera Watcher be installed?
Setup will install Wireless Camera Watcher into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\Program Files\Wireless Camera Watcher
Browse...
At least 8.9 MB of free disk space is required.
English
< Back
Next >
Cancel

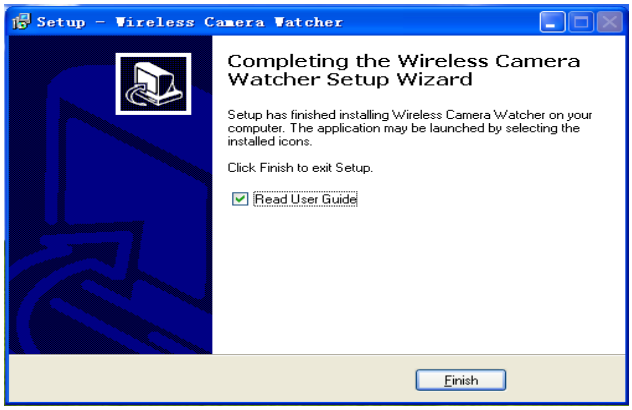
5. Click “Next”.


Setup - Wireless Camera Watcher
Select Start Menu Folder
Where should Setup place the program's shortcuts?
Setup will create the program's shortcuts in the following Start Menu folder.
To continue, click Next. If you would like to select a different folder, click Browse.
Wireless Camera Watcher
Browse...
English
< Back
Next >
Cancel

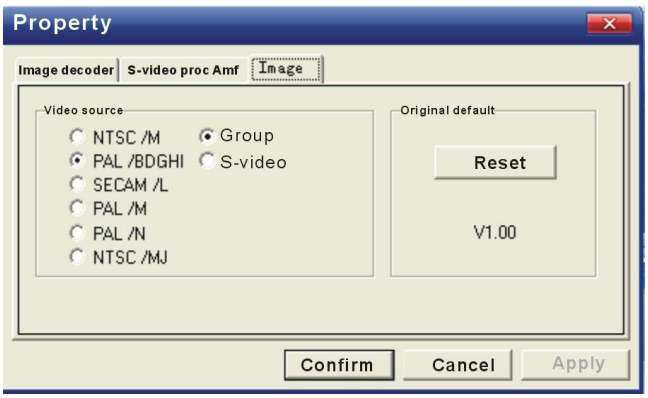
6. Click “Install”.


Setup - Wireless Camera Watcher
Ready to Install
Setup is now ready to begin installing Wireless Camera Watcher on your computer.
Click Install to continue with the installation, or click Back if you want to review or change any settings.
Destination location:
C:\Program Files\Wireless Camera Watcher
Start Menu folder:
Wireless Camera Watcher
English
< Back
Install
Cancel

7. Click “Finish”. At this time, your software “Wireless Camera Watcher” has been successfully installed.


Setup - Wireless Camera Watcher
Completing the Wireless Camera Watcher Setup Wizard
Setup has finished installing Wireless Camera Watcher on your computer. The application may be launched by selecting the installed icons.
Click Finish to exit Setup.
Read User Guide
Finish

X. Directions on operation of Wireless Camera Watcher:



For initial installation and operation, you should click high-level settings at first and then click Image tab to select system (PAL/BDGHI NTSC/M) and input manner. If you are using wireless camera or A/V IN, you should select "Group" .

- **Introduction of functions of buttons**

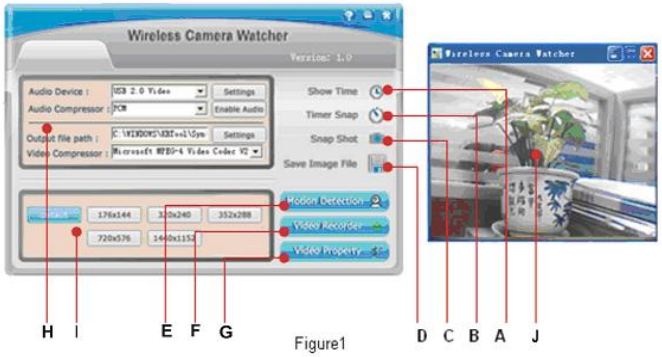


Figure1

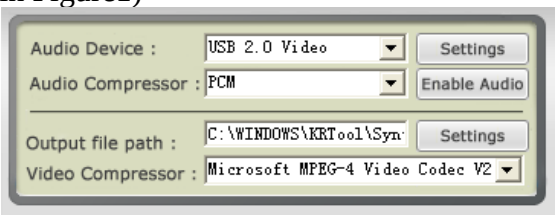
A. Show Time - Display date & time in red within capture screen.
B. Timer Shot - Captures and saves a bitmap picture after five seconds. Timer adjustable by clicking on have file options button. Ref. D)
C. Snap Shot -Capture and saves an instant bitmap picture.
D. Save File - Displays and allows capture of destination path and filename of bitmap capture file.
E. Motion Detection - launched motion and set up monitoring. Apply to 320x240 resolution.
F. Record - Capture Video Recording
G. Advanced Setting: Set up the video parameters, adjust the brightness , contrast and color. Etc.
H. Recorder Settings - Adjust video and audio recorder settings
I. Video and Image capture size.
J. Viewer Window

- **Still Shot Capture**

1. Select picture capture size format (ref. H in Figure1)
2. Enter destination filename and path (ref. D in Figure1)
3. Focus camera on source.
4. Click on Snap Shot Button (ref. C in Figure1)
   (Note. Still Shots can be captured using the silver button on the spotter webcam)

- **Video Capturing**

1. Focus camera on capture source.
2. Click on the run Recorder button to begin recording. (ref. in Figure1).
3. To stop recording click on the same button.
4. Output file path [*] and audio settings can be changed by clicking the Record Settings button (ref. J in Figure1)



(Note. Audio settings only apply to the Scout Camera that has audio capture features)
[*] Default files will be saved under **Wireless Camera Watcher** installing folder Such as: **C:\Program Files\Wireless Camera Watcher**

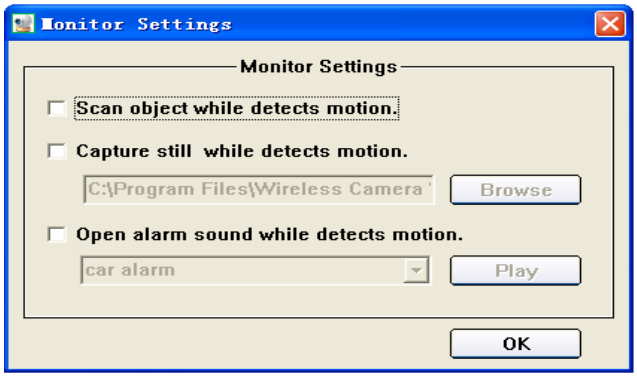
- **Resolution Settings**

You can select the video capture size by simply selecting 1 of the 5 video resolution options available (denoted by H in Figure1). The default setting resolution is 320X240. You will immediately see the results in the viewer screen alongside the control centre panel.

- **Motion Detection**

You can select the Motion Detection function by simply selecting **Scan object, Capture still, Open alarm** while detects motion. (denoted by F in Figure1).

IX. Specifications of receiver:



Note: [1] The Motion Detection function, only for 320x240 .
[2] Default files will be saved under **Wireless Camera Watcher** installing folder such as: **C:\Program Files\Wireless Camera Watcher** .

- **Advanced Settings**

The advanced settings window allows the user to adjust image characteristics by clicking on the Camera Controls tab or adding special effects by clicking on the advanced settings tab.

- **Camera Controls Tab**

Use the picture property window shown below to adjust picture quality. By sliding the Control Adjust Bar the effect can be seen immediately on the viewer window. These setting can be saved by clicking the save button or cancelled by restoring the default settings.

Check Box control features include:- Vertical Flip, Mirror Flip and Backlight Composition.

IIX. Spare Parts

1.	Wireless Receiving 4-Channel Multiplexer	1 PCS
2.	Power adapter	1 PCS
3.	A/V output line	1 line
4.	English Operation Instruction	1PCS
5.	Remote controller	1PCS
6.	2.4G antenna	1PCS
7.	Driver, CD of software recorded	1PCS
8.	USB cable	1 PCS